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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/670,354	09/26/2003	Takeo Niwa	241191US90CONT	5270	
22850 7	590 08/11/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			STEIN, STEPHEN J		
ALEXANDRI		ART UNIT	PAPER NUMBER		
			1775		
			DATE MAILED: 08/11/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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₹.		Applic	ation No.	Applicant(s)	<del></del>			
Office Action Summary			),354	NIWA, TAKEO				
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		•	n J Stein	1775				
Period fo	The MAILING DATE of this commun or Reply	ication appears on	the cover sheet v	vith the correspondence add	ress			
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn period for reply specified above is less than thirty (3) period for reply is specified above, the maximum st pre to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no nunication. 0) days, a reply within the atutory period will apply an will, by statute, cause the	statutory minimum of this will expire SIX (6) MO application to become A	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this con	nmunication.			
Status								
1)	Responsive to communication(s) file	ed on .						
		2b)⊠ This action is	s non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)	Claim(s) 1-6 is/are pending in the ap 4a) Of the above claim(s) is/a Claim(s) is/are allowed.  Claim(s) 1-4 and 6 is/are rejected.  Claim(s) 5 is/are objected to.  Claim(s) are subject to restrict  ion Papers  The specification is objected to by th The drawing(s) filed on is/are:  Applicant may not request that any obje  Replacement drawing sheet(s) including The oath or declaration is objected to	e Examiner.  a) accepted or ction to the drawing(so the correction is required.	n requirement.  b)  objected to be held in abeya uried if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	` '			
					J-102.			
12)⊠ a)	Acknowledgment is made of a claim  All b) Some * c) None of:  1 Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internation	documents have be documents have be of the priority docunal Bureau (PCT F	peen received. Deen received in A Deen received in A Deen received.	Application No. <u>09/524,010</u> . n received in this National S				
Attachmen	t(s)							
2)  Notice (3)  Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or or No(s)/Mail Date		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO- 	152)			

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#### **DETAILED ACTION**

#### **Priority**

1. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence of the specification or in an application data sheet (37 CFR 1.78(a)(2) and (a)(5)). The specific reference to any prior nonprovisional application must include the relationship (i.e., continuation, divisional, or continuation-in-part) between the applications except when the reference is to a prior application of a CPA assigned the same application number. Although the transmittal papers amend the specification to refer to 10/244,008, the amendment does not make reference to the parent applications of the '008 application.

#### Specification

2. The abstract of the disclosure is objected to because the abstract is the form of two paragraphs. Correction is required. See MPEP § 608.01(b).

#### **Double Patenting**

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1 and 2 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 7 and 8 of copending Application No. 10/244,008. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to one of ordinary skill in the art to use the ceramic substrate and conductive layer as a ceramic heater since the sintered nitride ceramics with conductive electrode are known in the art to be used as such as structure (See US 4,357,526).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by JP61241480A.

JP61241480 teaches a sintered aluminum nitride body comprising 0.0005 wt.% - 3 wt.% boron and below 3.0 wt% oxygen (abstract).

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7. Claims 1, 3, 4 and 6 are rejected under 35 U.S.C. 102(a) as being anticipated by JP411317441A (Watanabe).

Watanabe teaches an electrostatic chuck comprising a mixed sintered AlON and boron nitride ceramic and an electrode layer on the ceramic (See abstract).

8. Claims 1, 3, 4 and 6 are rejected under 35 U.S.C. 102(b) as being antcipated by US Patent 5,763,344 (Komatsu).

Komatsu teaches an aluminum nitride sintered body with boron oxide as a sintering aid (col. 23, lines 54-60). Komatsu further teaches that the invention is used as a semiconductor substrate (for use with a conductive layer) (col. 1, lines 5-15).

## Allowable Subject Matter

- 9. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter: While the closest prior art of record discloses a sintered AlN ceramic comprising below 1.5% oxygen and above 0.005 wt. % (50 ppm) to below 3 wt. % boron. The reference fails to teach or suggest having a boron concentration below 50 ppm.

#### Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Stein whose telephone number is 572-272-1544. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:00 p.m. If the

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attempts to reach the examiner are unsuccessful, the examiner's supervisor, Deborah Jones can be reached by dialing 571-272-1535. The official fax number is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 17, 2004

Stephen J. Stein Primary Examiner

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